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*LIVE RURAL. WORK GLOBAL.*

# Member Owned Cooperatives

A solution to Rural America's Broadband Crisis





High-speed fiber optic internet service



We want to bring you better internet service! Check your address to see if Trailwave Fiber is available in your area, or if you can help make it happen.



Get helpful instructions for signing up for Trailwave service

[Click here](#)

Residential	Small Business	Custom Enterprise	Extended Services
\$49.95 - \$99.95	\$50-175	Varies	Varies
50Mbps - 1 Gbps	15 Mbps - 50 Mbps	Dedicated Bandwidth	Data backup & storage
Supports multiple devices	No data caps or overages	No data caps or overages	Cloud phone services
Reliable uptime	Reliable uptime	Reliable uptime	Virtual servers
World-class, all-fiber network	World-class, all-fiber network	World-class, all-fiber network	IP video surveillance
Learn More About Residential Internet Service	Learn More About Small Business Internet Service	Learn More About Enterprise Service	Learn More About Extended Services

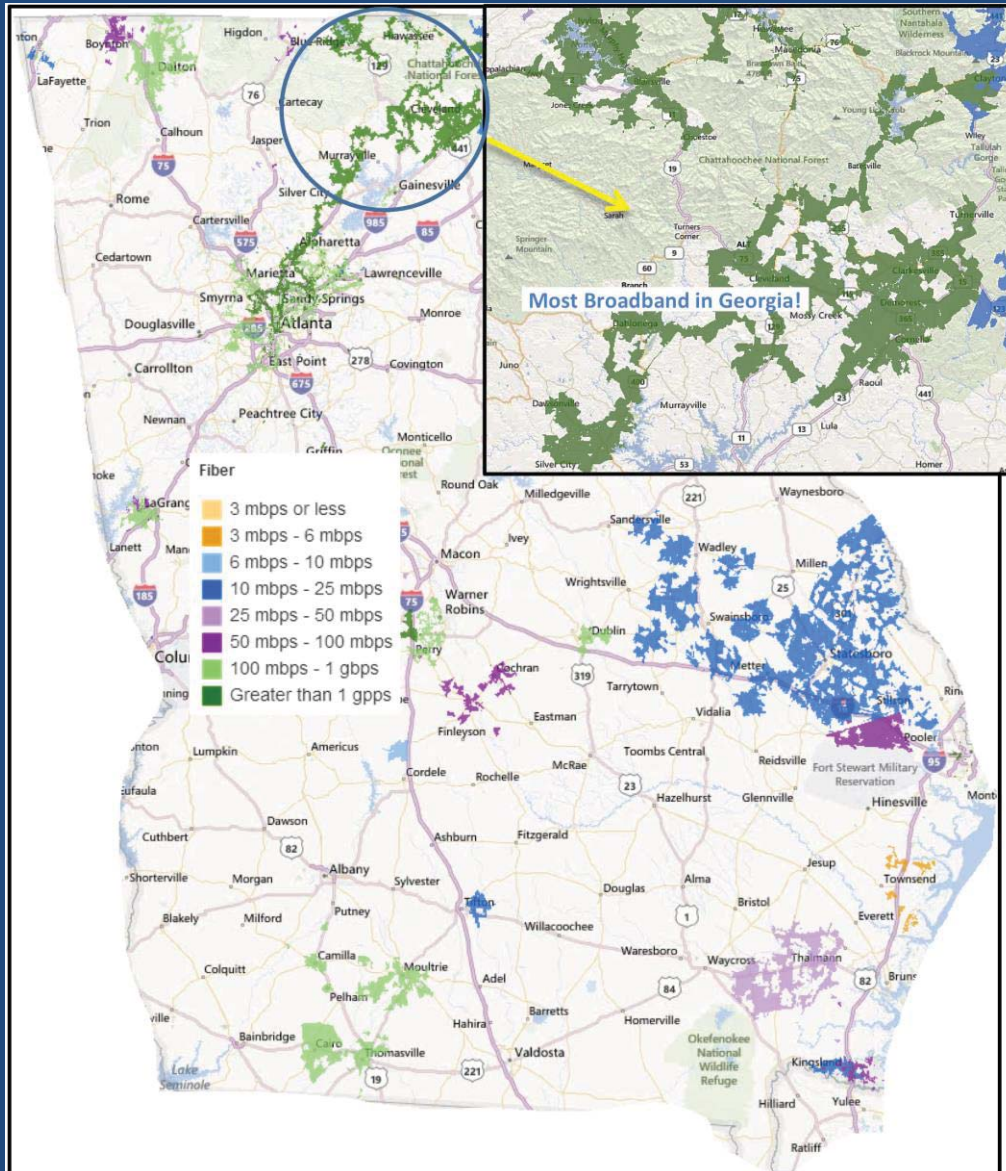
## COOPs as Market Leaders

Georgia has lagged the nation in providing gigabit to the home services. As of the beginning of 2014, not a single provider offered gigabit service to the home at residential pricing levels.

NGN and its family of companies (COOPs) now offers 1 Gbps to the home across nine counties for \$99.95 a month.

The NTIA and the FCC have recognized NGN's leadership. As the first gigabit to the home offering in Georgia, NGN beat Google and others.

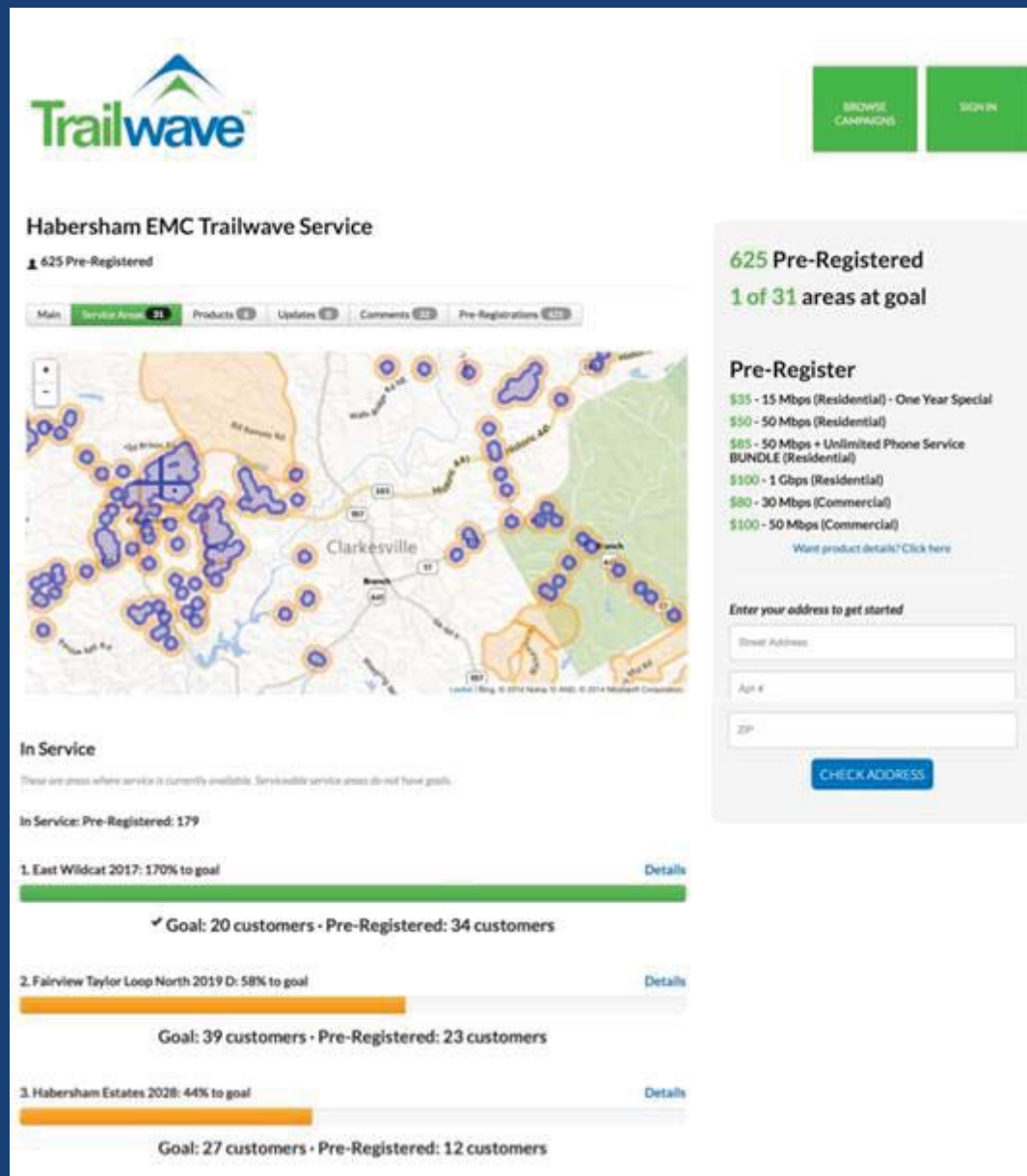




## COOPs as the best Rural Infrastructure Providers

The map shown is from the Georgia Technology Authority's Broadband Mapping Program

<http://www.georgiabroadband.net>



**Trailwave**

**Habersham EMC Trailwave Service**

625 Pre-Registered

625 Pre-Registered  
1 of 31 areas at goal

**Pre-Register**

- \$35 - 15 Mbps (Residential) - One Year Special
- \$50 - 50 Mbps (Residential)
- \$85 - 50 Mbps + Unlimited Phone Service BUNDLE (Residential)
- \$100 - 1 Gbps (Residential)
- \$80 - 30 Mbps (Commercial)
- \$100 - 50 Mbps (Commercial)

[Want product details? Click here](#)

**Enter your address to get started**

Street Address

Apartment

ZIP

**CHECK ADDRESS**

**In Service**

These are areas where service is currently available. Serviceable service areas do not have goals.

**In Service: Pre-Registered: 179**

- 1. East Wildcat 2017: 170% to goal** [Details](#)  
 ✓ Goal: 20 customers - Pre-Registered: 34 customers
- 2. Fairview Taylor Loop North 2019 D: 58% to goal** [Details](#)  
 Goal: 39 customers - Pre-Registered: 23 customers
- 3. Habersham Estates 2028: 44% to goal** [Details](#)  
 Goal: 27 customers - Pre-Registered: 12 customers

## COOPs as Innovators

To optimize gigabit adoption and minimize deployment costs, we worked with a Georgia-based company called **CrowdFiber** that lets consumers pre-register and pool their efforts together to reach the hurdle rates we require before fiber installation can be sustainable.

We were their first customer and helped shape the product. The image shows the transparency of our build out planning and provides an example of the level of support we have gathered from consumers.





# National Telecommunications & Information Administration

United States Department of Commerce

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## TOPICS

- Spectrum Management
- Broadband
- Internet Policy
- Domain Name System
- Public Safety
- Grants
- Institute for Telecommunication Sciences

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## PUBLICATIONS

## BLOG

## OFFICES

## ABOUT

## CONTACT

[Home](#) » [Newsroom](#) » [Speeches/Testimony](#) » 2014

### Remarks by Acting Chief of Staff Wilhelm at the 2014 Broadband Communities Summit

#### Topics/Subtopics:

[Broadband Technology Opportunities Program](#) [State Broadband](#)

April 14, 2014

**"NGN is a microcosm of the transformation"**

**"NGN is transforming education and building workforce skills"**

Remarks by Anthony Wilhelm  
Acting Chief of Staff

National Telecommunications and Information Administration

Broadband Communities Summit

Development and Global Competitiveness

Austin, Texas

April 10, 2014

--As prepared for delivery--

#### I. Be "Open for Business" in the Global Economy

I am thrilled to be here with you at this conference and I commend you for making this event possible every year. I am proud of the committed broadband practitioners here today.

Internet to communities that so desperately need it. As someone who has spent my career working to close the digital divide, I feel a deep fellowship with all of you in this room in your steadfast commitment to this cause—our cause.

**"NGN network also supports a new ten-gigabit education network"**

## Featured Initiatives

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[Broadband USA](#)

[Wireless Broadband: 500MHz](#)

[National Broadband Map](#)

## Welcome to Our New Website

We are currently updating our website to better serve you.  
[Read more.](#)





# COOPs as Researchers

Prepared by NGN August 2012

## Case Studies for Fiber: Broadband and Georgia EMCs



Coastal Electric Cooperative

GreyStone Power Corporation

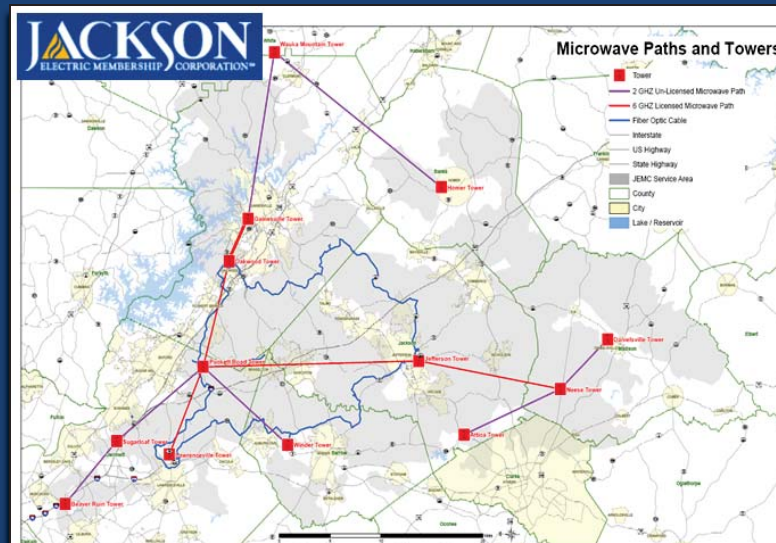
Jackson Electric Membership Corporation

GTC/GSOC

August 2012

Smarr, GA

Hosted by GTC/GSOC



**State of Network Development:** Operation

**Network Dimensions:** 125 miles of high count fiber

**Services / Assets Offered:** Internal use only. Connects headquarters and four offices and provides real time data replication and phone services that minimize traditional operational costs.

**Construction Approach:** Built entirely by in-house construction crews. After contracting the first 40 miles of fiber, Jackson decided to purchase a fiber splicing trailer and do all splicing and maintenance entirely. Jackson was able to justify the cost of the splicing trailer on the cost savings of in-house splicing.

**Rationale:** Jackson had built and operated a microwave system for similar connections in the past. This microwave system was very reliable and built Jackson's confidence in its networking capabilities. Fiber was the next logical step to gain more capacity and better leverage broadband.

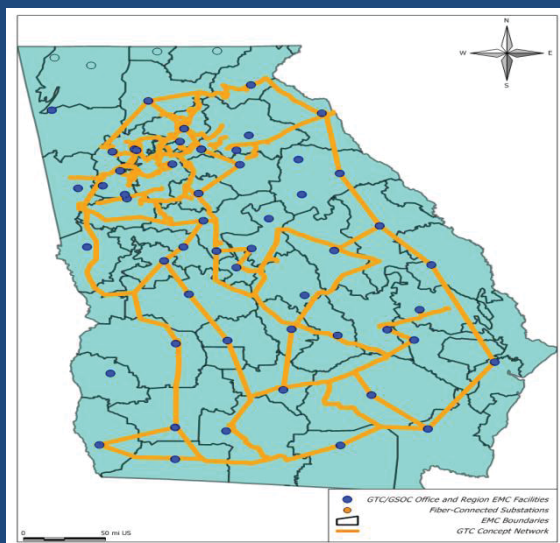
**How Fiber Fits into Jackson's Responsibilities as an EMC:**

- With the fiber, Jackson now operates a SIP based phone system that can scale on-demand to any number of incoming lines. This scalability allows Jackson to avoid busy signals and customer service delays even during storms and other major outages.

# Georgia Transmission Corporation and Georgia Systems and Operations Corporation

## Strategy and Planning Report

Prepared by NGN and Civitium April 2013



**Evolution of EMCs with Fiber/Broadband**

	Stage 1	Stage 2	Stage 3	Stage 4
Build/Own Networks	✗	✓	✓	✓
Internal Operations	✗	✓	✓	✓
Member Services	✗	✗	✓	✓
Telecom Co-op	✗	✗	✗	✓

## COOPs as Strategists

*A Managed Network for EMCs  
Operational Data, Virtualized  
Services Platforms, Intranet, IP*

